

1:8 SCALE NITRO POWERED TOURING CAR



RTR INSTRUCTION MANUAL

SAFETY PRECAUTIONS

This radio control models is not a toy!

- First time builders should seek the advice from people having building experience in order to assemble the model correctly and to produce it's performance to full
- Assemble this kit and places out of children's reach!
- Take safety precautions while operating this model. You are responsible for this models assembly and safe operation!
- Always keep this instruction manual ready at hand for quick reference, even after

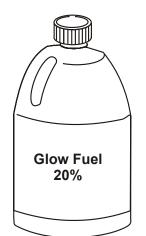
completing the assembly.

REQUIRED FOR OPERATION

THINGS NEEDED

You will need to buy a few items to start the engine and run the car. • Use 20% nitro CAR fuel. Do not use airplane or heli fuels, they will

over heat engine.



• Buy long glow plugs, like OFNA/PICCO Plug (#51007). Use plugs without idle bar. Do NOT buy hot plugs, like the MC-59.

In your box you will find...

- #10163 Bottle, spout top
- #10218 Red "C" size glow heater





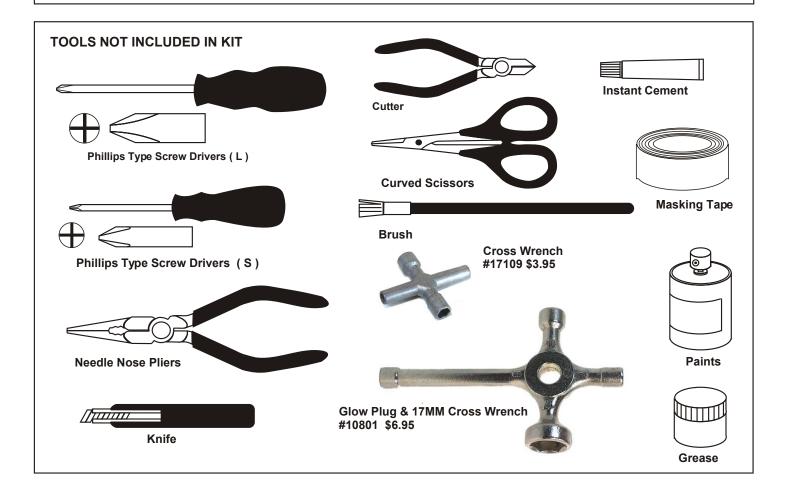
You need to get batteries for the radio transmitter and the car receiver

- Radio TX needs (8) eight AA batteries
- Car needs (4) four AA batteries.



Recommendation Option:

You may want to upgrade the car battery pack to a Ni-Cad or NiHm 5 cell type(600AE). This will give more run time. OFNA #10211 1000NiMh Flat Pack and NiHm Battery Charger #10214



READ THIS BEFORE RUNNING

Running a nitro kit is fun and easy, but to make this a safe and good experience you must observe a few rules. This kit is extremely fast, easily over 40MPH, and can seriously injure someone if you are not careful.

Where to run car?

- Any running area you choose must be dry. Do not run car near any water or wet dirt.
- Do not run on public streets. It is very easy to have the car run over or damaged by hitting the curb.
- Do not operate car in tight confined places. The car is very fast and will easily hit something.
- Do not run near people or animals. The car is very fast and will too easily hit someone.
- Due noise, you will want to consider the surrounding area when operating the car.
- Do not operate the car at night. You will not be able to drive it without hitting something.
- Do not operate the car indoors. Engine exhaust is not healthy.

Glow Fuel

- · Glow fuel is poisonous!
- · Glow fuel is flammable!
- Do not leave in fuel bottle with lid off at any time.
- Don use any fuel other than glow fuel in this engine.

First Time Starting the Engine

Caution! When starting engine make sure the following is observed.

- Set engine Master needle to 3 turns (rich setting)
- Do not do this alone, get an experienced friend to help at first
- Fill fuel tank, try not to spill fuel. Do not spill fuel on receiver
- Hold car off the ground, so it will not runaway when first starts
- Turn on Radio and check the linkage before starting engine.
- Turn on car receiver battery switch.
- Always have an air filter on the carburetor to keep dirt out.

Engine Break-in

· See Engine Page.

Emergency Stopping Engine When Running

- Remove air filter and cover carb. intake.
- Squeeze fuel line and hold until engine stops.
- With a rag, cover exhaust outlet.

Storing Car After Running

- Remove fuel from tank and fuel lines
- Turn off radio in car
- Put a few drops of after run in engine to keep it from

rusting.

· Clear oil and dirt from chassis with a degreaser.

Precautions

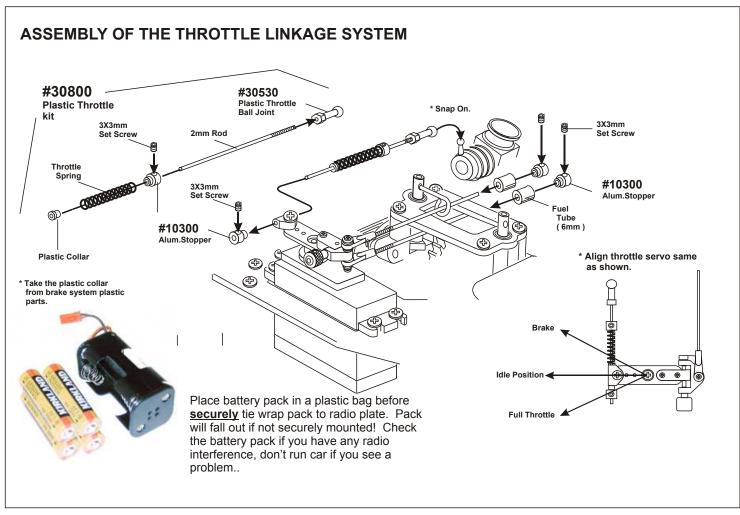
- This kit is not a toy. Always run car with a second person as a spotter and pitman.
- Hot Parts The pipe, manifold, engine and head are very hot and will cause burns.
- Rotating Parts Keep hands away from the drive train, wheels, and engine when engine is running.
- Radio Check batteries life before running the car. If radio does not have full control of the car with steering and/or throttle/brake do not run until corrected. Failure to correct this will result in possible injury and damage to the car or property.
- Glow fuel Do leave the glow fuel unattended with the lid off. Fuel contains Methanol and Nitro Methane and is flammable and poisonous.

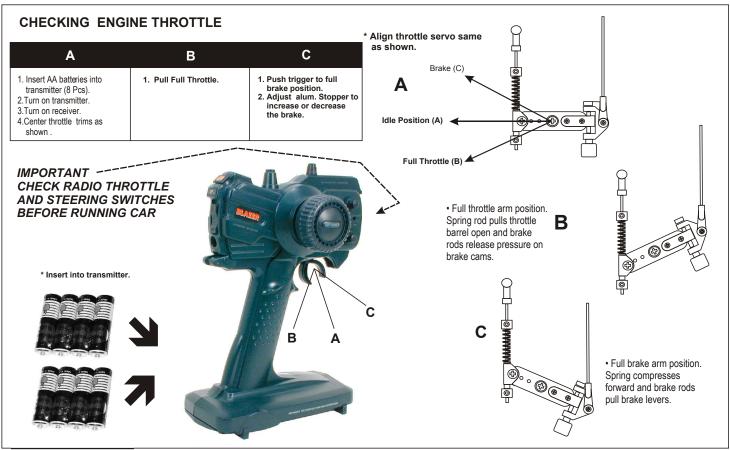
Store fuel in cool ventilated location. Refer the glow fuel label for additional precautions.

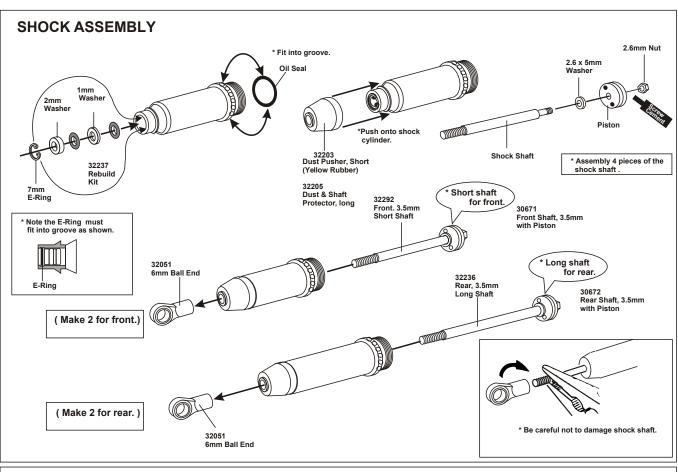
- Car Fuel tank Never store fuel in car tank, it will ruin the engine if left in tank.
- Always turn off the car BEFORE turning off radio.
- DAMAGE DUE CAR RUN AWAY IS NOT A WARRANTY ISSUE.

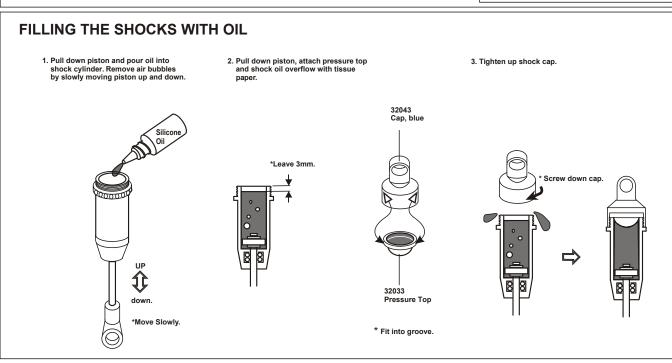
IF YOU DO NOT BREAK-IN ENGINE CORRECTLY, MAINLY AT LOW RPM, YOU WILL BREAK THE CONNECTING ROD!

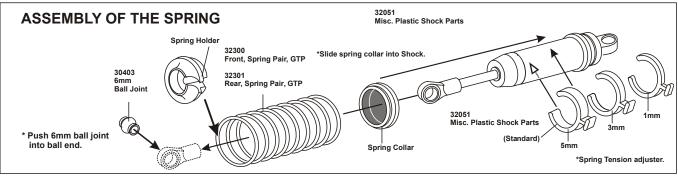
FAILURE TO NOT READ AND FOLLOW BREAK-IN ENGINE INSTRUCTIONS WILL VOID WARRANTY!



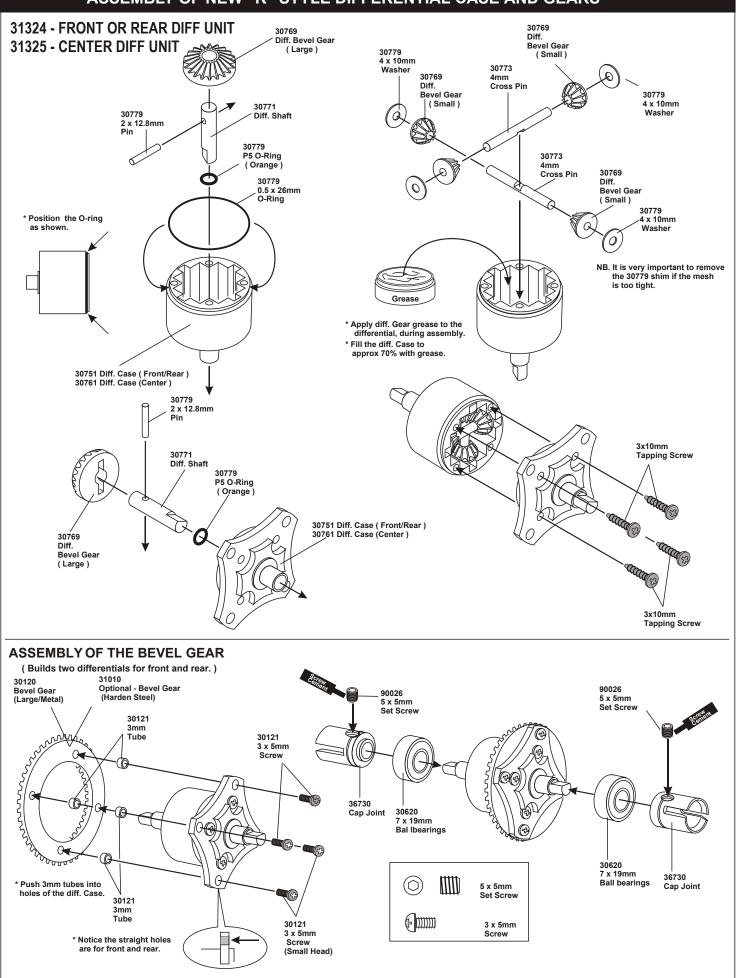


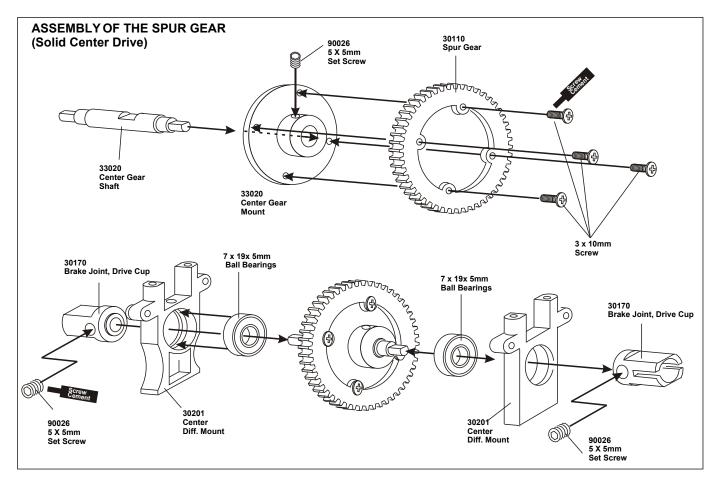




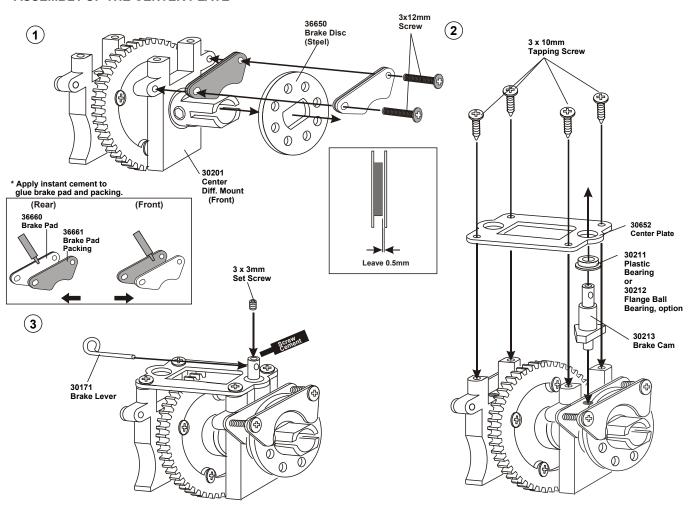


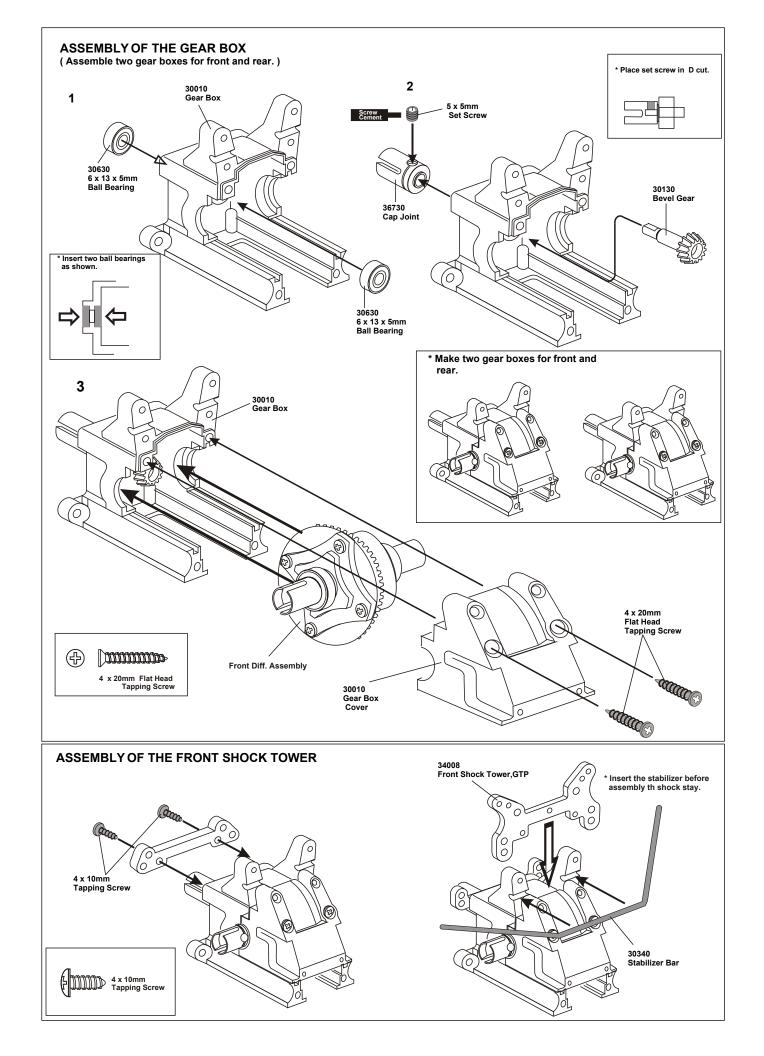
ASSEMBLY OF NEW "K" STYLE DIFFERENTIAL CASE AND GEARS

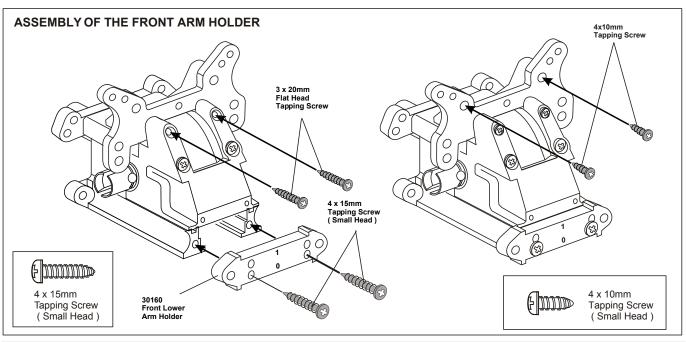


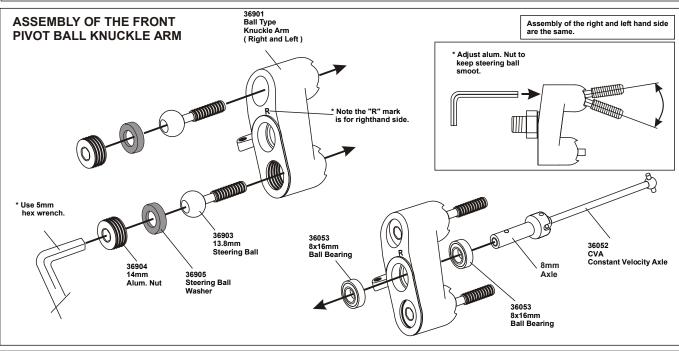


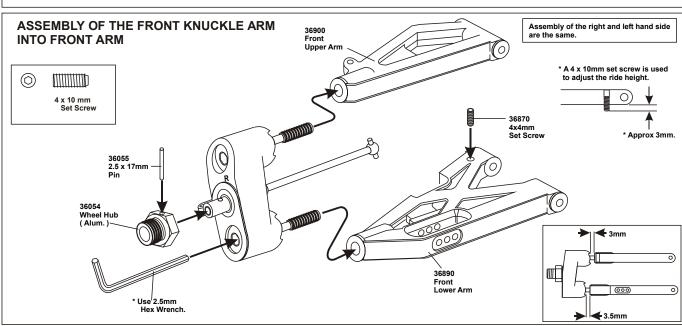
ASSEMBLY OF THE CENTER PLATE

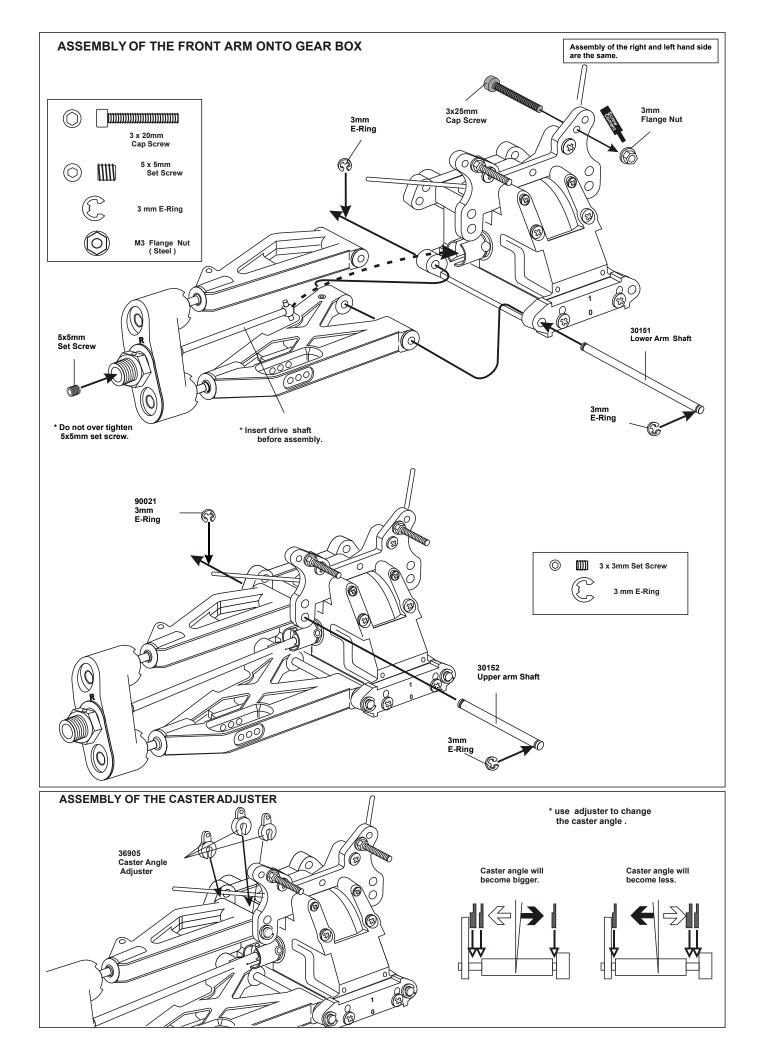


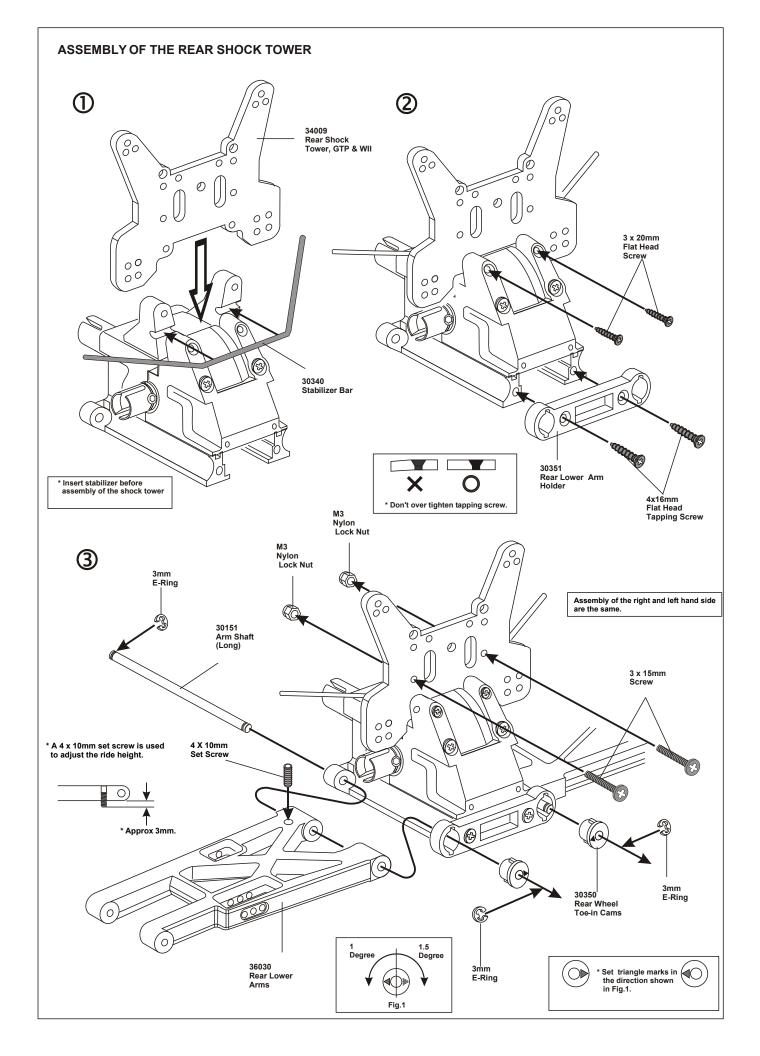


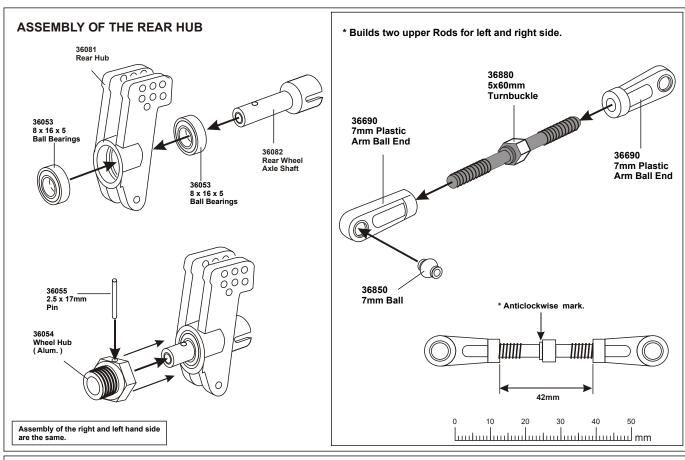


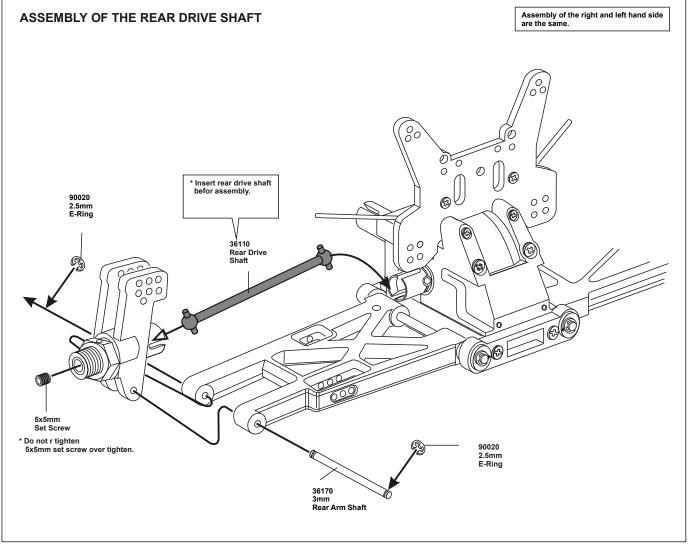


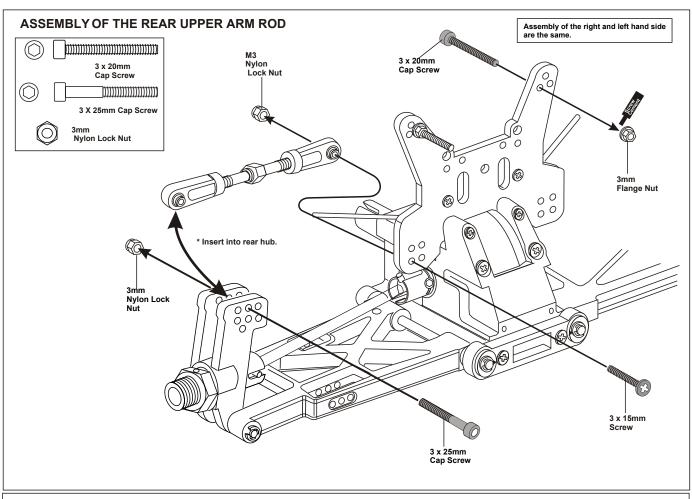


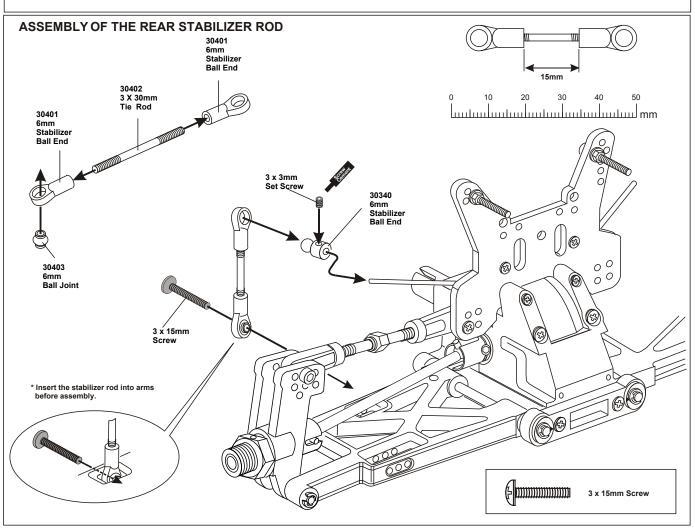


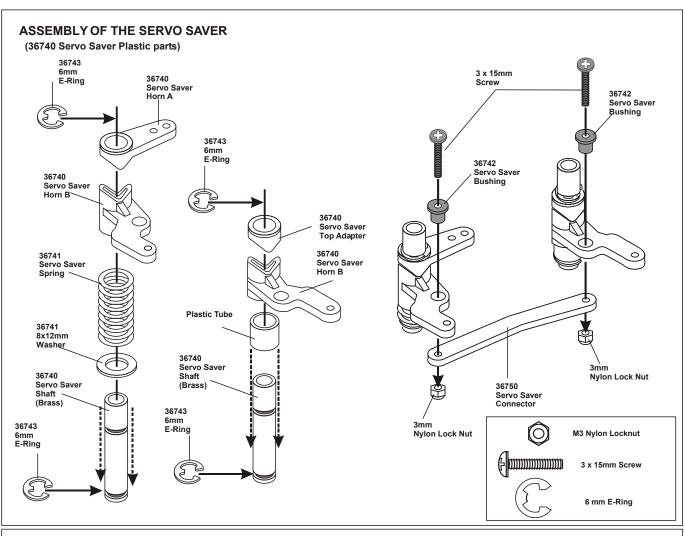


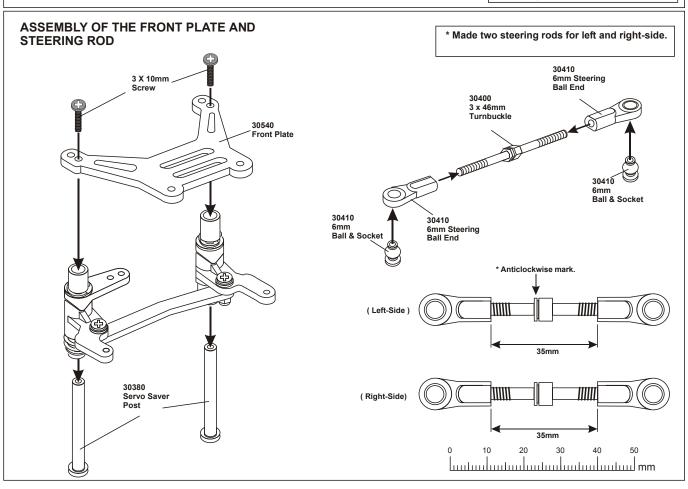


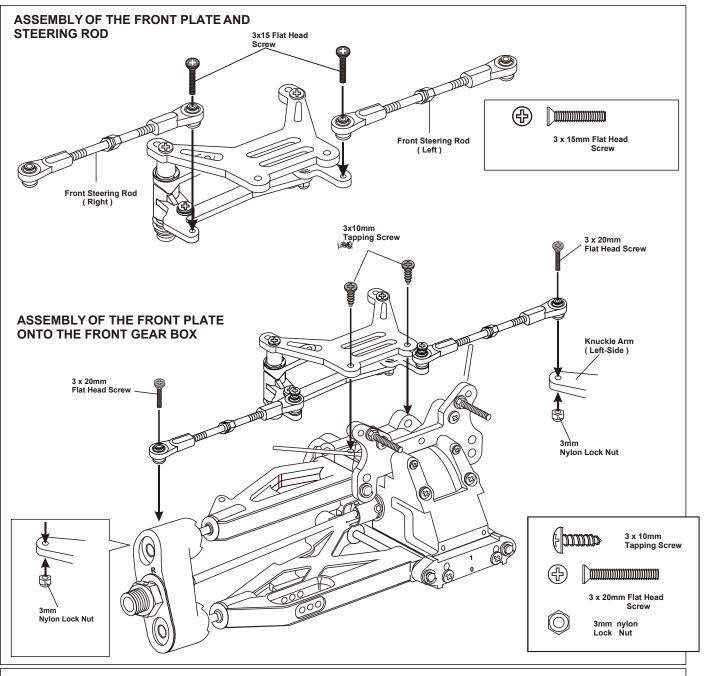


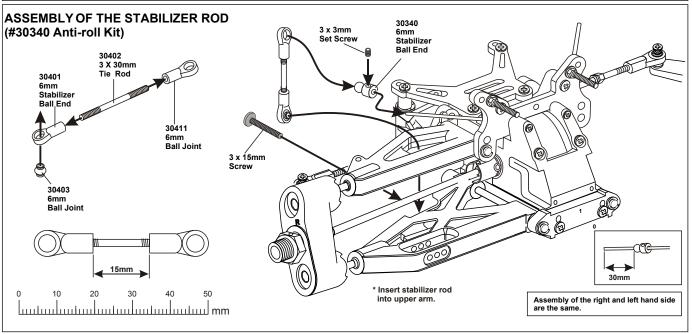


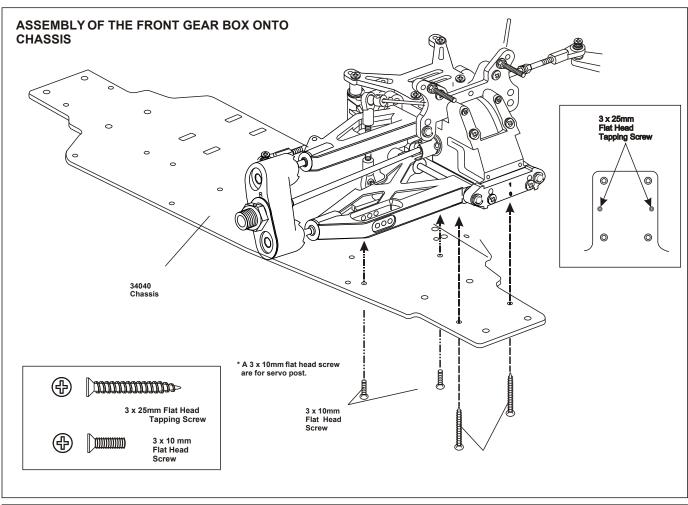


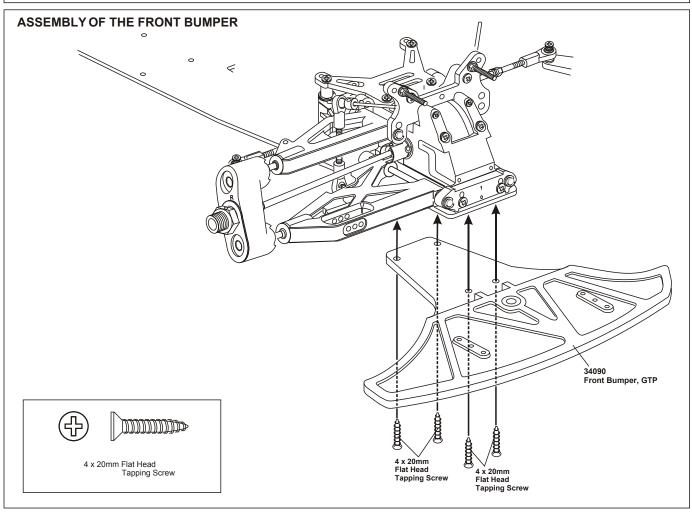


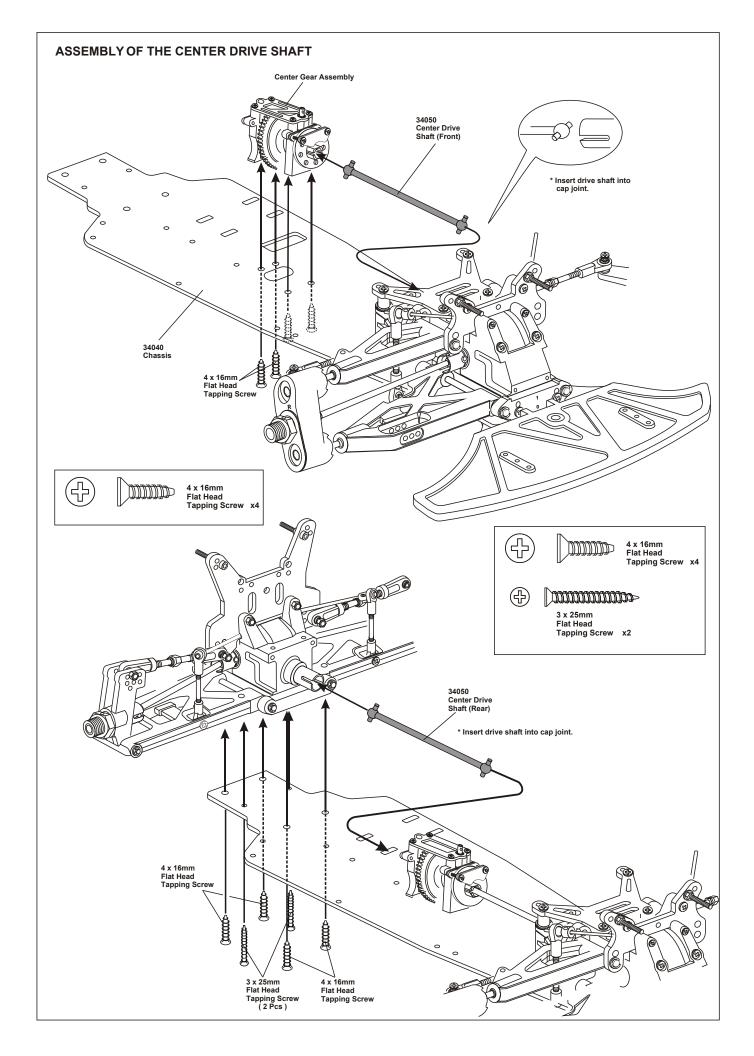


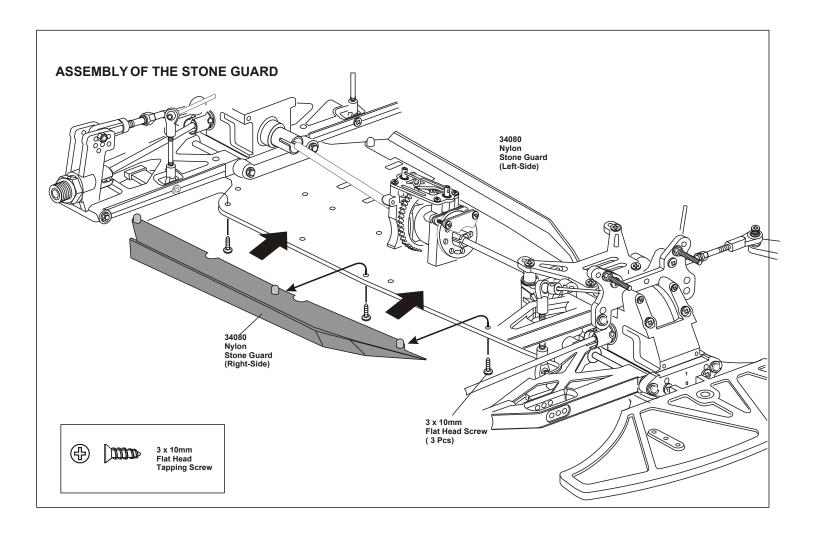


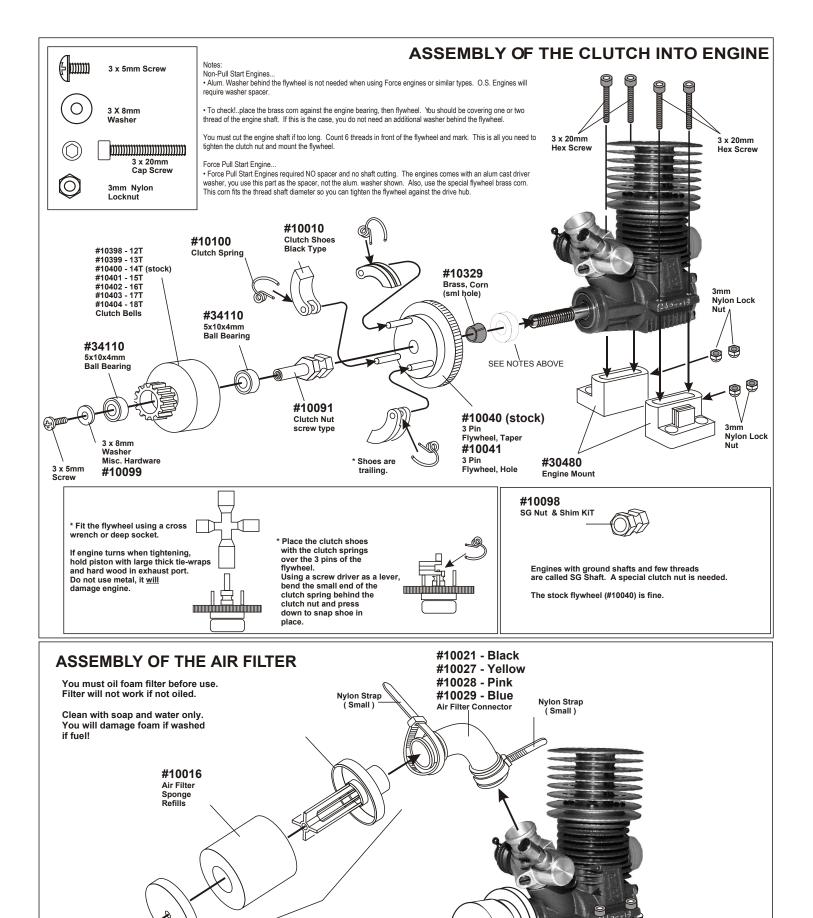






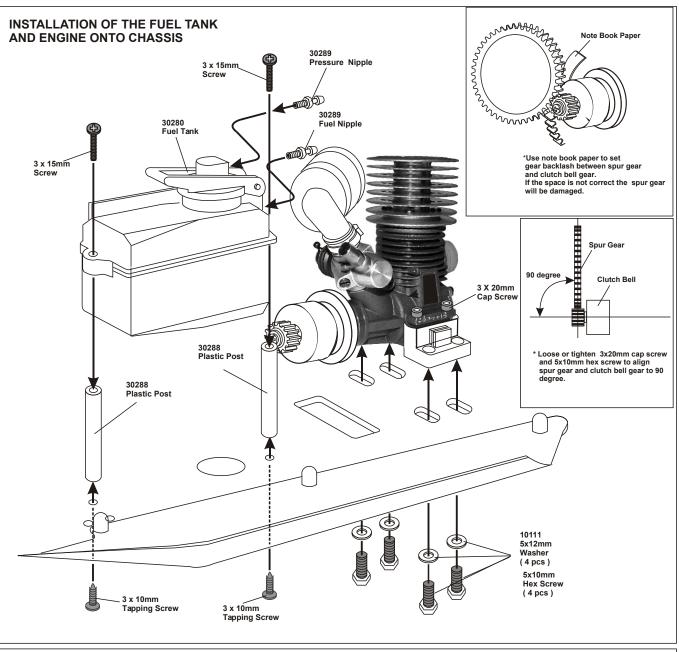


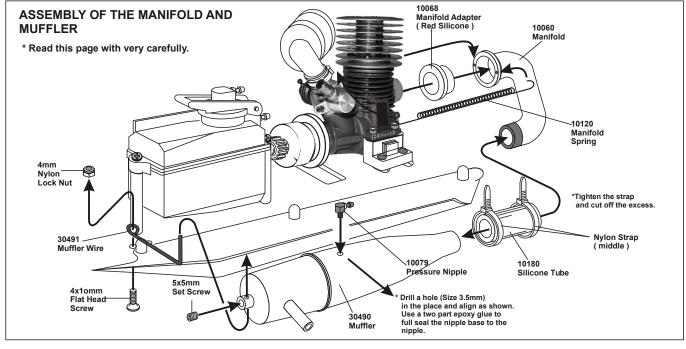


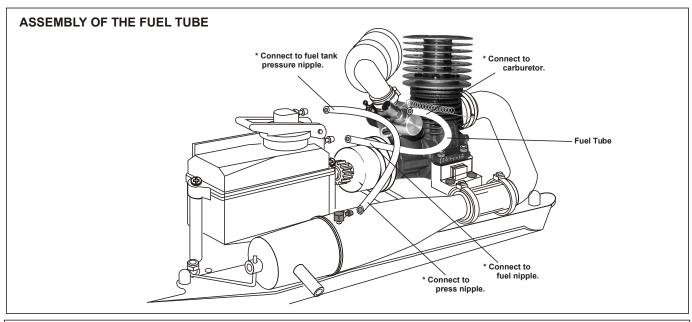


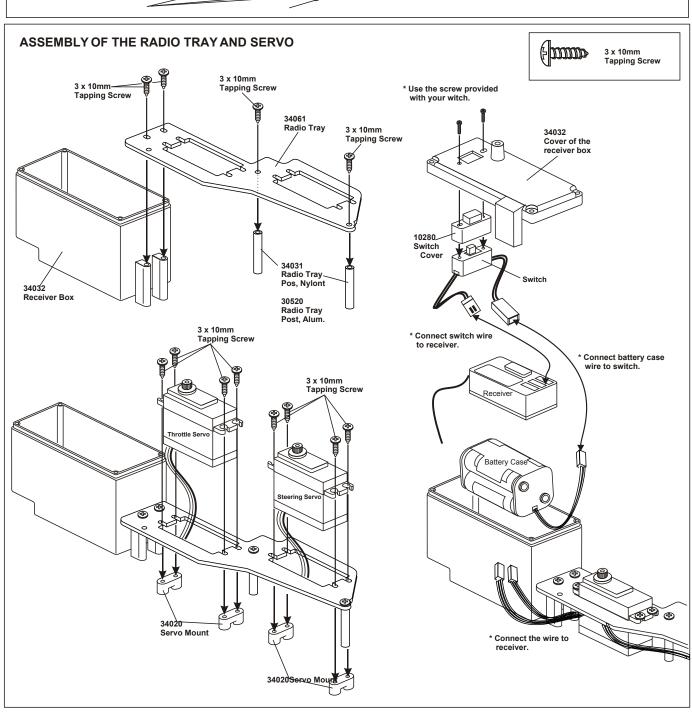
#10017 - Blue #10018 - Yellow #10019 - Rose Foam Air filters Unit

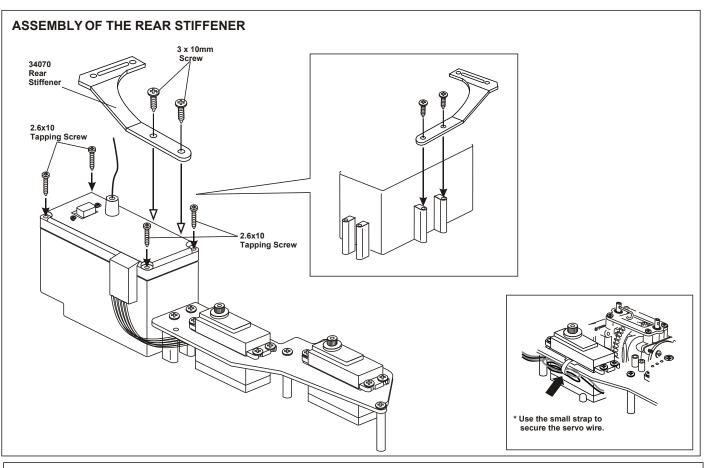
3 x 10mm Tapping Screw

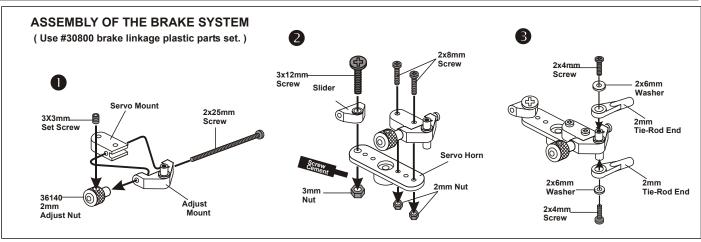


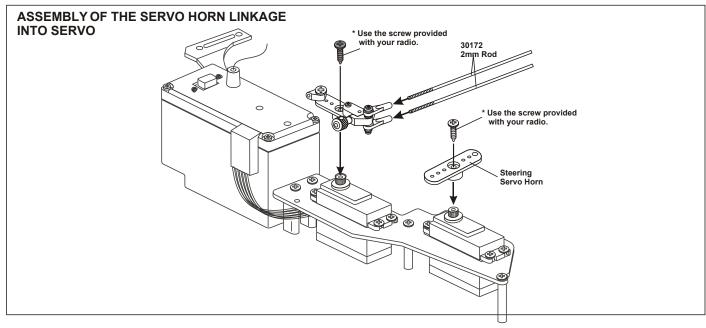


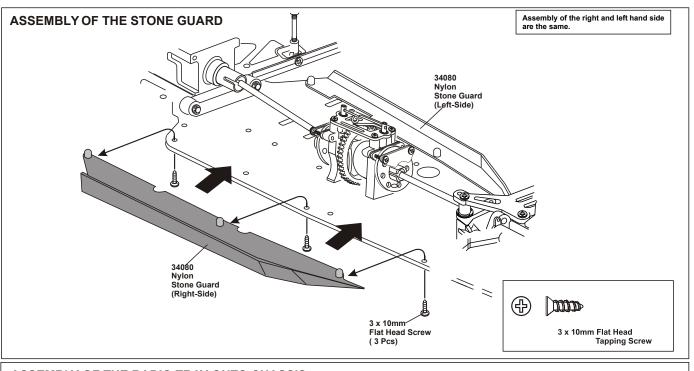


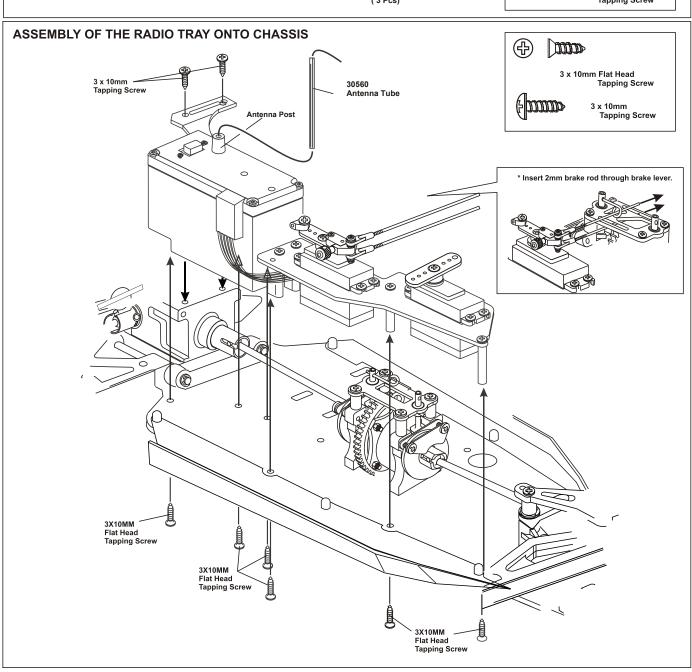


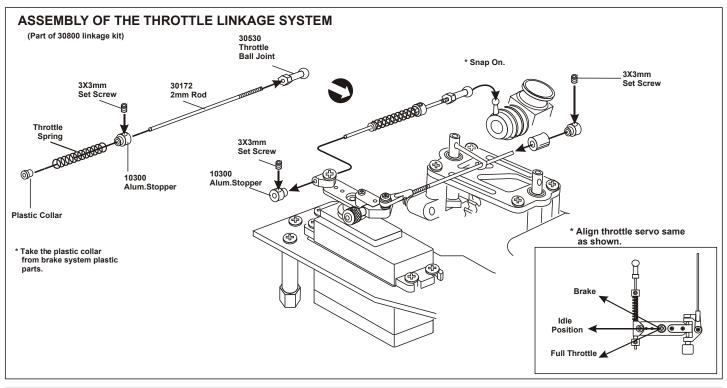


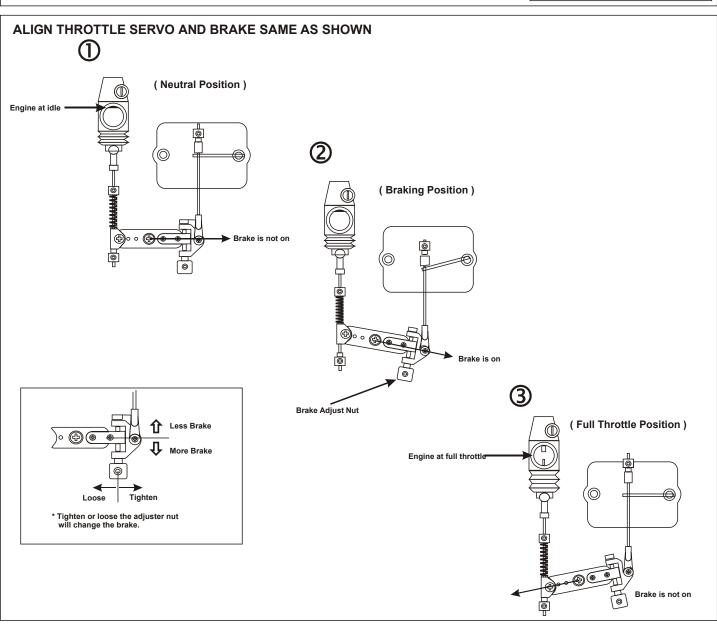


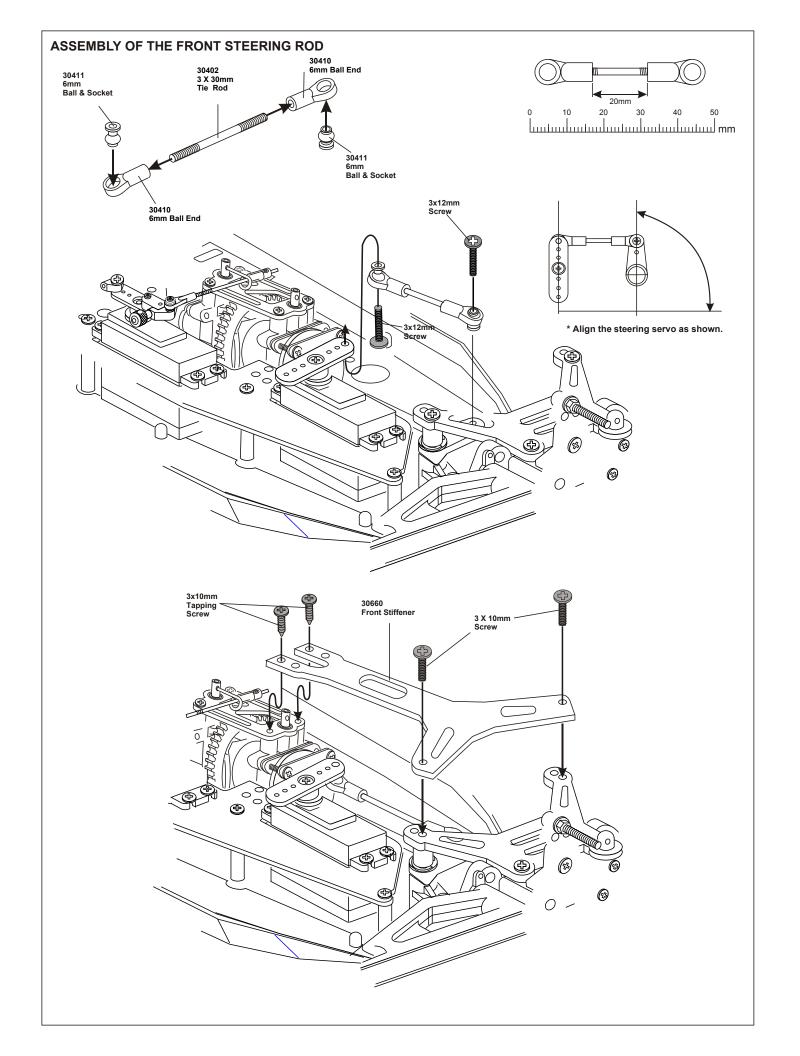


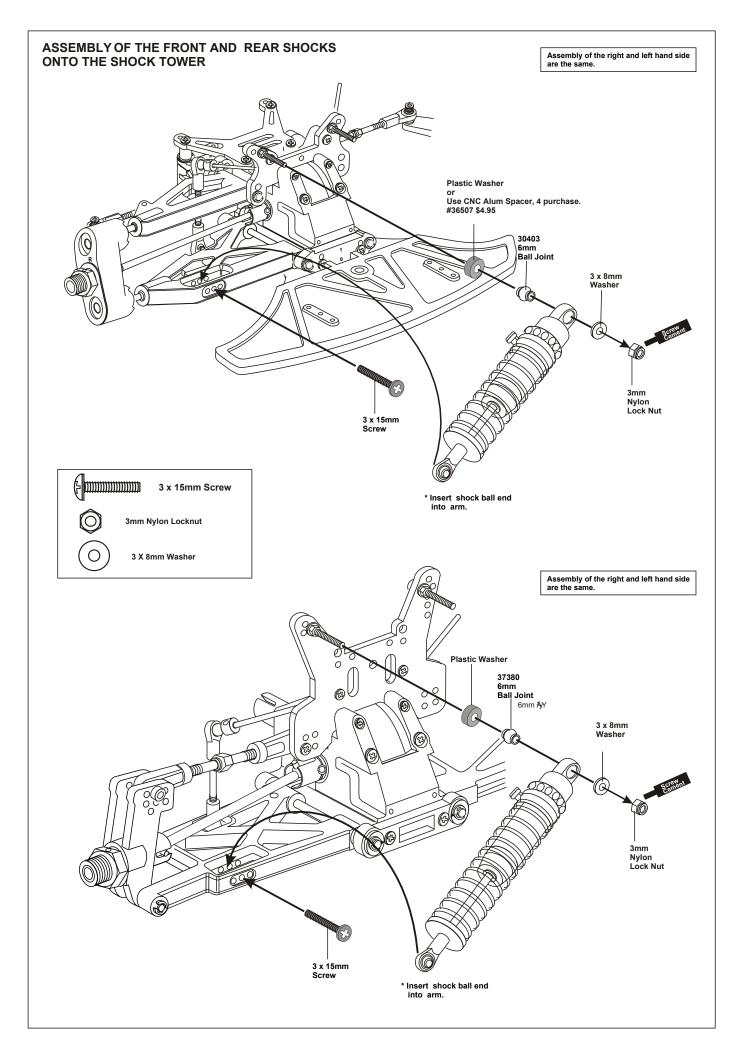


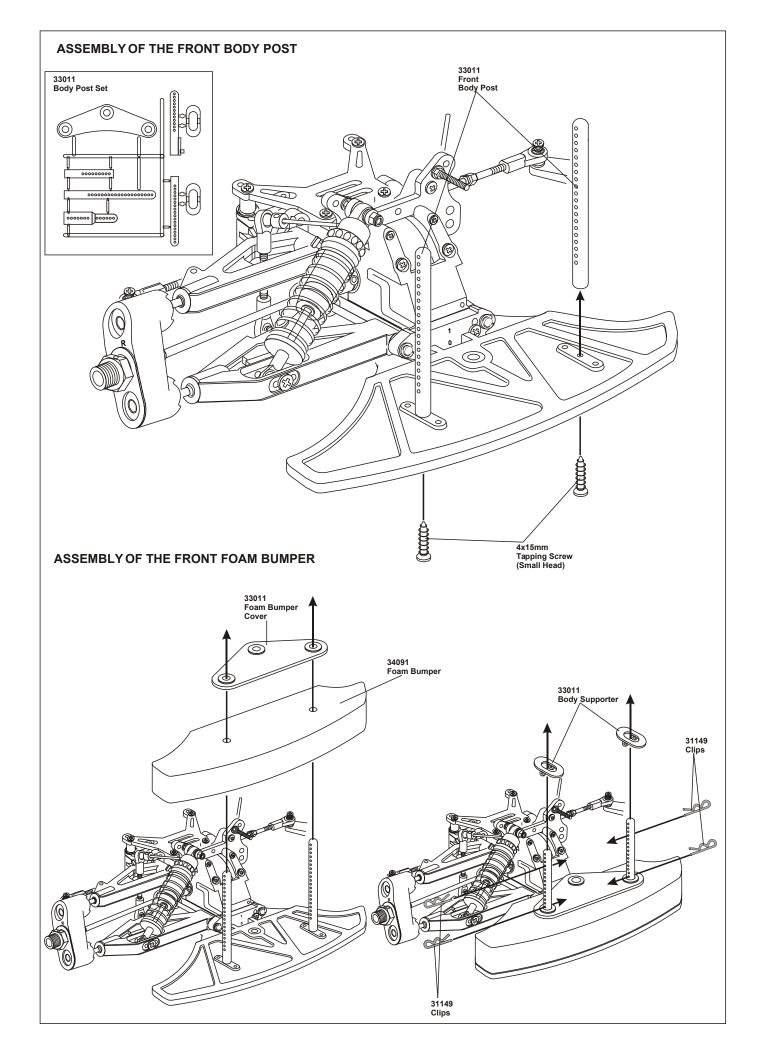


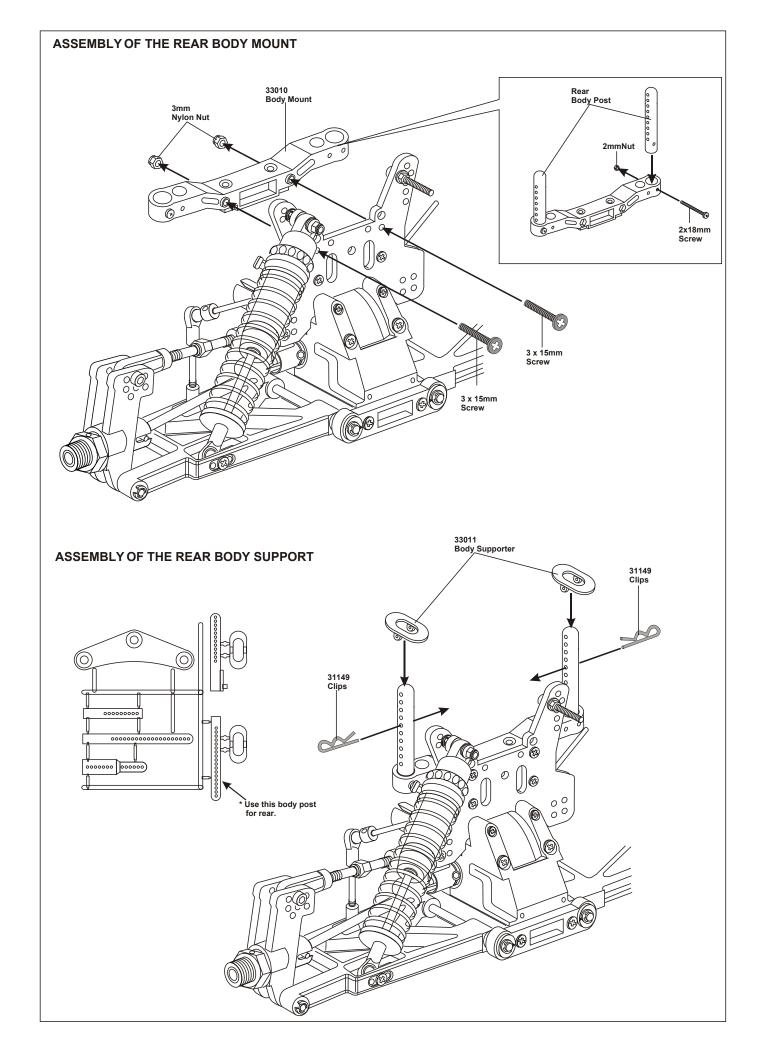


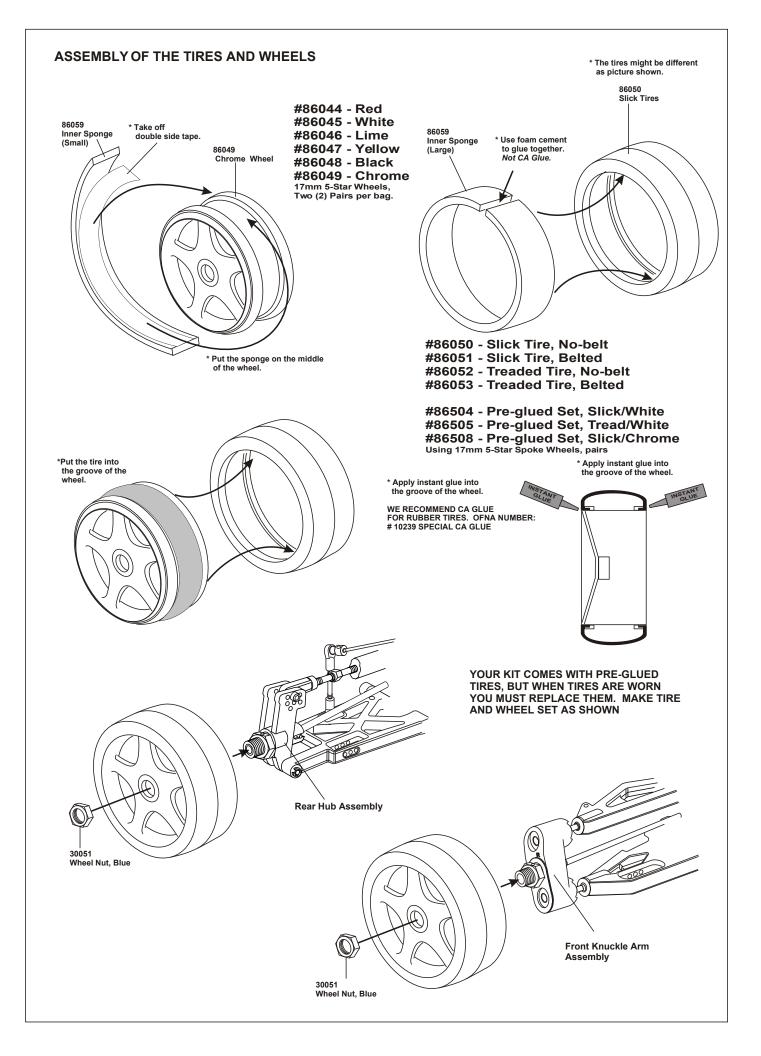












15WHEES



Wheels, Hyper White Wheels, Hyper Gray Part #81052 Wheels, Hyper Yellow Part #81054



Wheels,6 Spoke White Part #81025

Wheels,5 Spoke Chrome Part #81028 Wheels, Stock White



Foam (Y-Dot) Trued 17mm Part #82031 Foum (G-Dat) Trued 17mm Part #82032 Foam (B-Oot) Trued 17mm Part #82033



Wheels, Dish White Part #86040 Wheels, Dish Yellow Part #86041 Wheels, Dish Black Part #86042



Wheels, Dual Spoke, Orange Part #86032 Wheels, Duel Spoke, Chrome Wheels, Dusi Spoke, White Wheels, Duel Spoke, Yellow Part #86035 Wheels, Dual Spoke, Lime G. Part #88038 Wheels, Dual Spoke, L. Gray Cost #85037 Wheels, Dusl Spoke, D. Gray Wheels, Dual Spoke, Red Part #86039

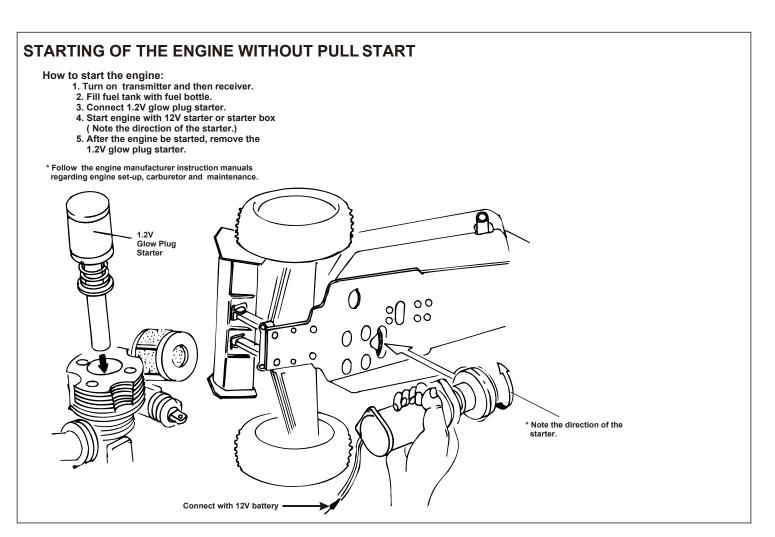


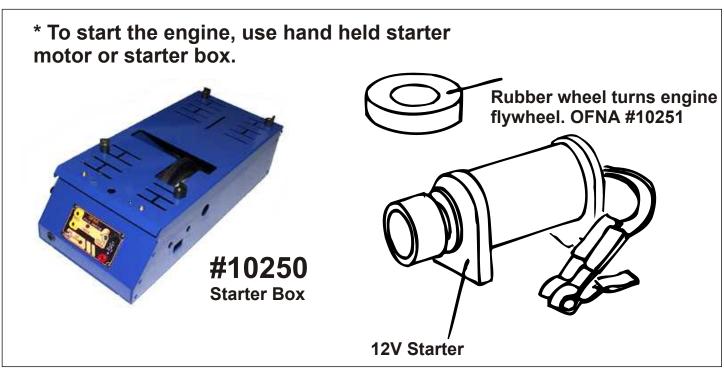
Wheels, Stor

Wheels, Ster White Wheels, Star Lime Part #85045 Wheels, Star Yellow Part #86047 Wheels, Star Block Wheels, Star Chrome Part #86049 Wheels, 17mm Monster, White



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PAINTING TIPS

For BUGGY



Wash the inside of the body with detergent to remove any oil and dirt. Dry with lint free towel or a hair dryer. (Keep your hand clean.)



STEP 2 Tools required are: Curved scissor, hobby knife and a quality masking tape. These can be purchase at your local hobby supplier.



(STEP 3) Use the curved scissors to trim the body to the guide lines provided on you body shell.



Use masking tape on the inside of the body to mask out your design and windows prior to painting. Press down the edges!



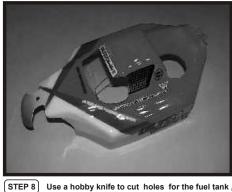
STEP 5
Paint the inside of the body!
Use a spray color suitable for polycarbonate.
(Paint the darkest color first.)



Allow the paint to dry for at least an hour!
Remove the masking tape and protection film from the outside of the body.



STER 7 Apply the decals to the outside of the body.
We suggest use a hobby knife to cut them out.

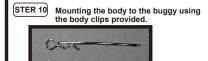


Use a hobby knife to cut holes for the fuel tank , engine and antenna tube .

Make two 7mm holes for the body posts; one at the front and one at the rear.



Drill two 7mm holes in nylon wing.
Using the measurements provided in the instruction. Use the clip provided to secure the wing to the wing mount posts.





STEP 9

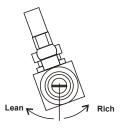


TUNING AFTER BREAK-IN

Close master needle by turning clockwise until it stops. Then open needle by turning counterclockwise 3 turns (rich setting).



Adjust low end needle for best throttle response. Use only small turns. From idle, give it full throttle, if throttle is slow lean out needle until good.



When running car, adjust carb with 1/8 clockwise turns, slowly leaner, until the top speed good. Check engine temp, if possible, for no more 250 degrees.



Adjust barrel stop so it will not close, accept for a small gap. This gap will be the idle setting. You will notice the idle will increase with a wide gap.



1:1 SCREW	CUEI-T	10 20 30 40 50
3 x 5mm Cap Screw	◎ ∰ 3 x 3mm Set Screw	M3 Nut
3 x 10mm Cap Screw	© 3 x 5mm Set Screw	
3 x 12mm Cap Screw	© 3 x 8mm Set Screw	M4 Nut
3 x 15mm Cap Screw	① 3 x 10mm Set Screw	M3 Nylon Locknut
(i) 3 x 20mm Cap Screw	③ 3 x 15mm Set Screw	M4 Nylon Kocknut
	4 x 4mm Set Screw	
3 X 25mm Cap Screw	4 x 10 mm Set Screw	M3 Flange Nut (Steel)
3 x 5mm Tapping Screw	5 x 5mm Set Screw	O V Ozoro Western
3 x 8mm Tapping Screw	2 x 4mm Screw	O 2 X 6mm Washer 2 mm X 7mm Washer
3 x 10mm Tapping Screw	2 x 5mm Screw	
3 x 12mm Tapping Screw	2 x 6mm Screw	3 X 8mm Washer
3 x 15mm Tapping Screw	2 x 8mm screw	5 X 9mm Washer
3 x 20mm Tapping Screw	2 x 10mm Screw	5 X 10mm Washer
3 x 25mm Tapping Screw	Dunnununununun 2 x 25mm Screw	5 X 12mm Washer
3 x 10mm Flat Head	3 x 5mm Screw	
Tapping Screw	3 x 10mm Screw	2mm E-Ring
3 x 15mm Flate Head Tapping Screw	A	2.5mm E-Ring
3 x 20mm Flat Head Tapping Screw	3 x 15mm Screw	3 mm E-Ring
3 x 25mm Flat Head Tapping Screw	3 x 20mm Screw	4 mm E-Ring
3 x 5 mm Flat Head Screw	3 x 30mm Screw	
3 x 10 mm Flat Head Screw	4 x 6mm Flat Head Screw	5 mm E-Ring
3 x 15mm Flat Head Screw	4 x 10mm Flat Head Screv	6 mm E-Ring
3 x 20mm Flat Head Screw 3 x 25mm Flat Head	4 x 15mm Flat Head Screw	
Screw	4 x 20 mm Flat Head Screv	7 mm E-Ring
4 x 10mm Tapping Screw	4 x 10mm Flat Head	
4 x 15mm Tapping Screw	Tapping Screw 4 x 16mm Flat Head	
4 x 20 Tapping Screw	Tapping Screw 4 x 20mm Flat Head Tapping Screw	
4 x 25mm Tapping Screw	Tapping ociew	
A v 15mm Tonning Sorous	3 x 30mm Screw P (Black)	
4 x 15mm Tapping Screw (Small Head)	3 x 30mm Screw P	

OPERATING YOUR MODEL SAFELY

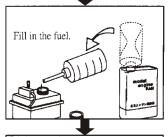
Before Running

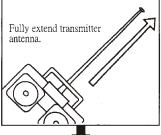
Your radio control model can move at high speed and therefore can cause injury to people or damage to property. It is your responsibility to operate your model safely.

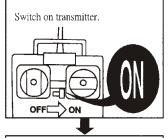
For radio equipment, refer to the manual included with the radio.

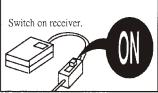
Check that all screws and nuts are tight.

If the model begins to operate by itself, there is someone else on your frequency. Do not try to operate your model under these conditions for it may go out of control.



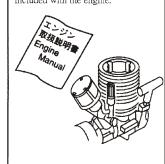






Enging Start-up

For engine use, refer to the manual included with the engine.



To prime the engine with fuel, press down the primer button.



Attach one clip to the glow plug's end and the other clip to one of the cylinder cooling fins.



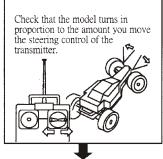
Quickly pull the starter rope (to start the engine).



Adjust by screwing the needle little by little.

Remove the clips from the engine.

While Running

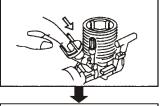


Chsck that the speed of the model changes in proportion to the amount you move the speed control of the transmitter.

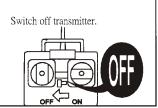


After Running

By pushing with your fingers the air cleaner, interrupt the engine



Switch off receiver.



Proper maintenance extends the life of the model.

Use genuine parts.

Cautions for Safety

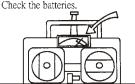
Do not run your model through water. This may cause rust or electrical problems.



If model does not operate correctly stop it and find the cause.



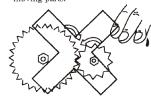
Check the batteries.



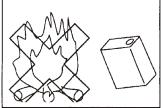
After each run, the model is hot.



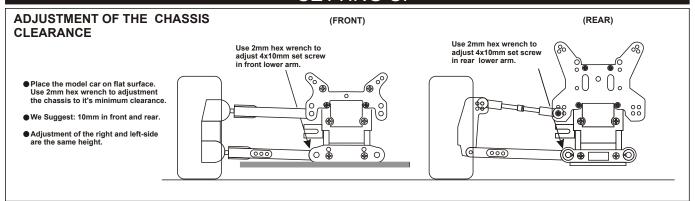
Keep hands and tools away from moving parts.

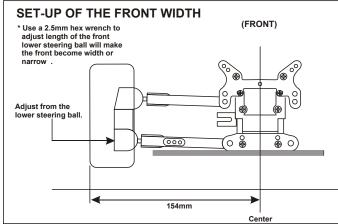


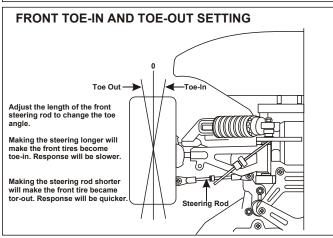
Never throw burning, gleaming or smouldering things into fuel cans even if these happen to be empty. This is very dangerous to life! I!

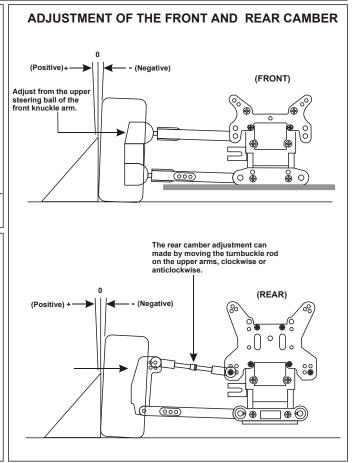


SETTING UP

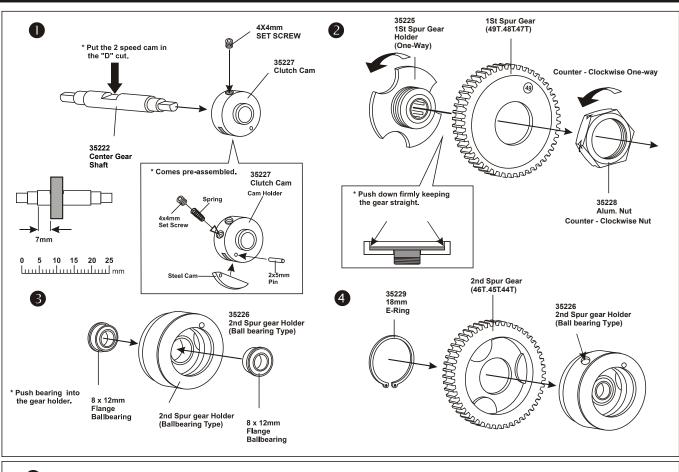


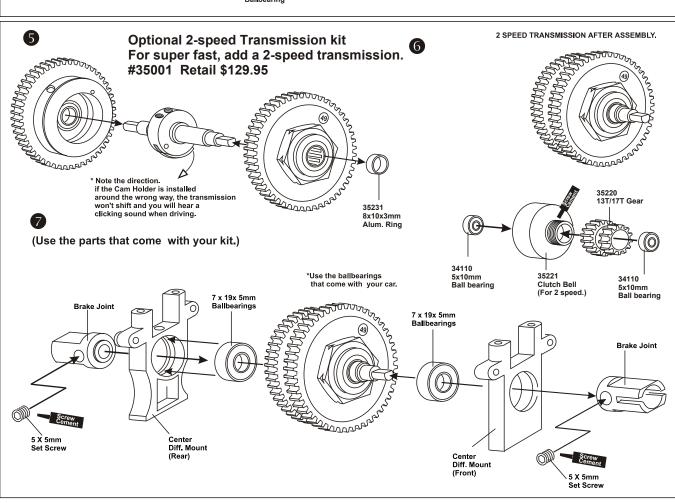


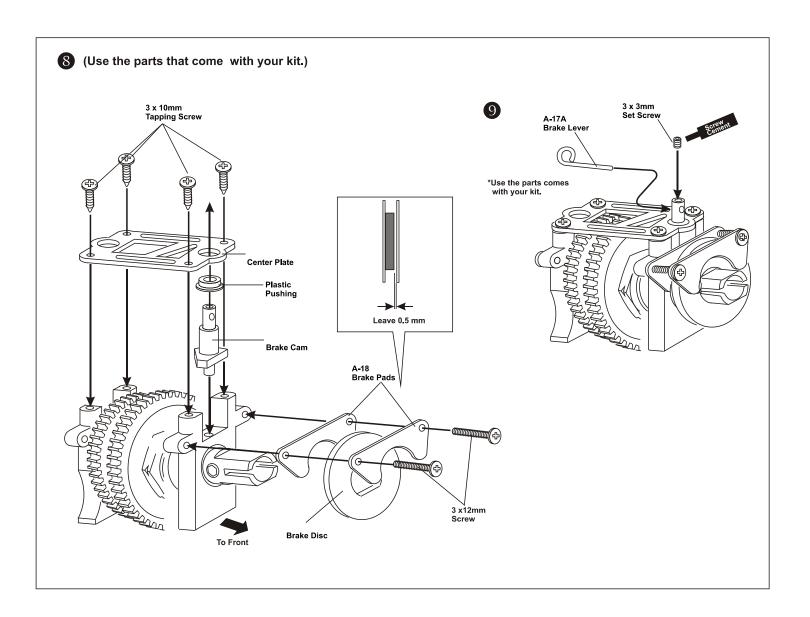


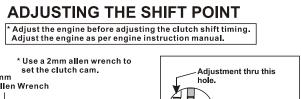


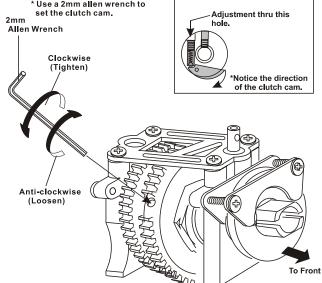
OPTION PARTS OF THE 2-SPEED TRANSMISSION











1. Once the engine adjustment have been completed, proceed to adjustment of the clutch shift timing. (Using a 2mm allen wrench to adjustment the clutch cam.)

HN-293

35001

Clockwise-----Shift timing will become slower. Anticlockwise---Shift timing will become quicker.

2. Adjust the clutch shift timing for your track conditions with 4x4mm set screw. As you tighten (Clockwise) the 4x4mm set screw, the shift timing will become slower.

As you loosen (Anticlockwise) the 4x4mm set screw, the shift timing will become quicker.

3. Set the shift timing to the track conditions while the car is running.

The #293 2-speed transmission allows the car to have more punch out of the corners and higher top speed. We offer many different pinion and spur gear combinations which can be used for different tracks.

2 SPEED GEAR RATIO COMBINATIONS 二段變速齒輪組合

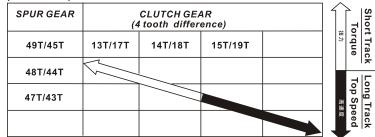
IMPORTANT:

The sum of the spur gear and clutch gear for1st gear must be equal the sum of the spur gear and clutch gear for 2nd gear be equal.

Example:

1st gear 45+13=58 Must be equal 2nd gear 41+17=58

(STANDARD)(標準)



2 SPEED OPTION PARTS

2 SPEED PARTS

SPUR GEAR(1st): 大齒(一段用)		SPUR GEAR(2nd): 大齒(二段用)		
NO.	Description	NO.	Description	
294A	49T Spur Gear	294D	46T Spur Gear	
294B	48T Spur Gear	294E	45T Spur Gear	
294C	47T Spur Gear	294F	44T Spur Gear	

CLUTCH GEAR: 碗公齒(二段用)

NO.	Description
294G	13T/17T Gear
294H	14T/18T Gear
294 I	15T/19T Gear

NO.	Description
293A	1st Spur Gear Holder
293B	2nd Spur Gear Holder
293C	Clutch Cam Set
293D	Alum. Nut (Anti-Clockwise)
293E	18mm E-Ring
293F	8x12mm Flange Ballbearing
293G	8x10x3mm Alum. Ring
B-2	Center Shaft
C-11	5x10x4mm Ballbearing
220L	Clutch Bell

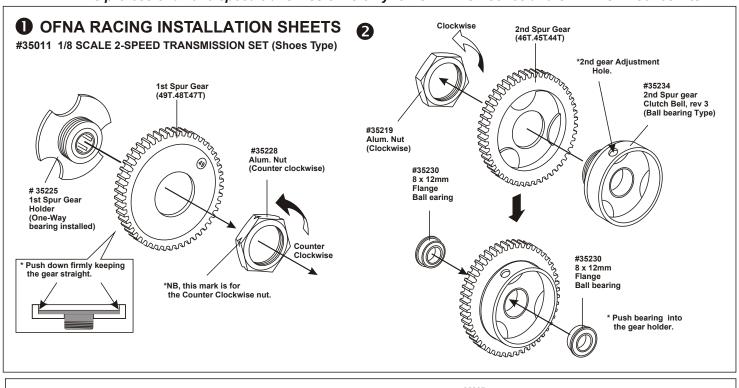
126.95

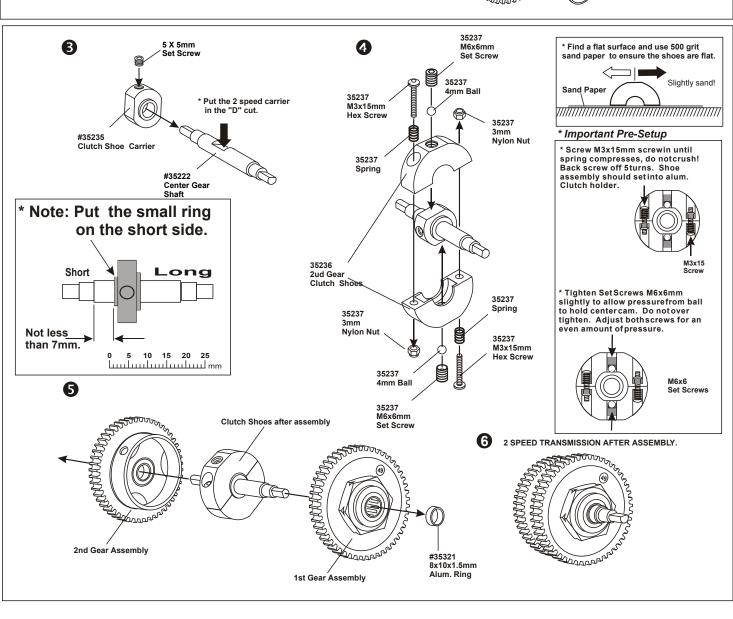
00001	1111 230	Z OI EED KITO, HODIK, GETTAKO, BENZEIK, GTT , KEV Z	120.55
35002	HN-221	2-SPEED KIT, INFERNO (NOT MP5/6)	126.95
35003	HN-221	2-SPEED KIT, INFERNO (NOT MP5/6)	126.95
35220	HN-294G	GEARS, 2-SPEED SET, 13T/17T REV 2	19.95
35221	HN-220L	BASE, CLUTCH BELL, SCREW-ON BASE REV 2	28.95
34110	C-11	BEARING, 5x10mm 2 PCS.	7.95
35222	B-02	SHAFT, OFNA CARS, 2-SPEED REV2	11.95
35223	B-0	SHAFT, KYOSHO 7.5, 2-SPEED REV2	11.95
35224	B-0	SHAFT, MUGEN MBX, 2-SPEED REV2	11.95
35225	HN-293A	ALUM.HOLDER, 1ST GEAR, 2-SPEED REV2	26.95
35226	HN-293B	ALUM.HOLDER, 2ND GEAR, 2-SPEED REV2	24.95
35227	HN-293C	CLUTCH CAM DISC., 2-SPEED REV2	13.95
35228	HN-293D	ALUM. NUT, CCW NUT, LARGE, 2-SPEED REV2	2.95
35229	HN-293E	E-CLIP, 18mm	0.95
35230	HN-293F	BEARING, 8x12 FLANGE, 2 PCS.	12.95
35231	HN-293G	ALUM. SPACER, 8x10mm	1.95
35232	HN-294H	GEARS, 2-SPEED SET, 14T/18T REV 2	19.95
35233	HN-294I	GEARS, 2-SPEED SET, 15T/19T REV 2	19.95
35249	HN-294A	SPUR GEAR, 49T, 2-SPEED REV2	11.95
35246	HN-294D	SPUR GEAR, 46T, 2-SPEED REV2	11.95
35248	HN-294B	SPUR GEAR, 48T, 2-SPEED REV2	11.95
35247	HN-294C	SPUR GEAR, 47T, 2-SPEED REV2	11.95
35245	HN-294E	SPUR GEAR, 45T, 2-SPEED REV2	11.95
35244	HN-294F	SPUR GEAR, 44T, 2-SPEED REV2	11.95

2-SPEED KITS, HODR, ULTRA'S, BLAZER, GTP, REV 2

INSTRUCTIONS #35011 1/8 SCALE 2-SPEED TRANSMISSION SET (Shoes Type)

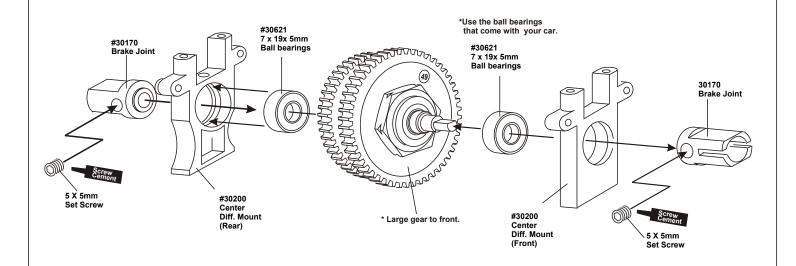
* This professional two speed transmission is only for ULTRA GT series and ULTRA GTP series kits.

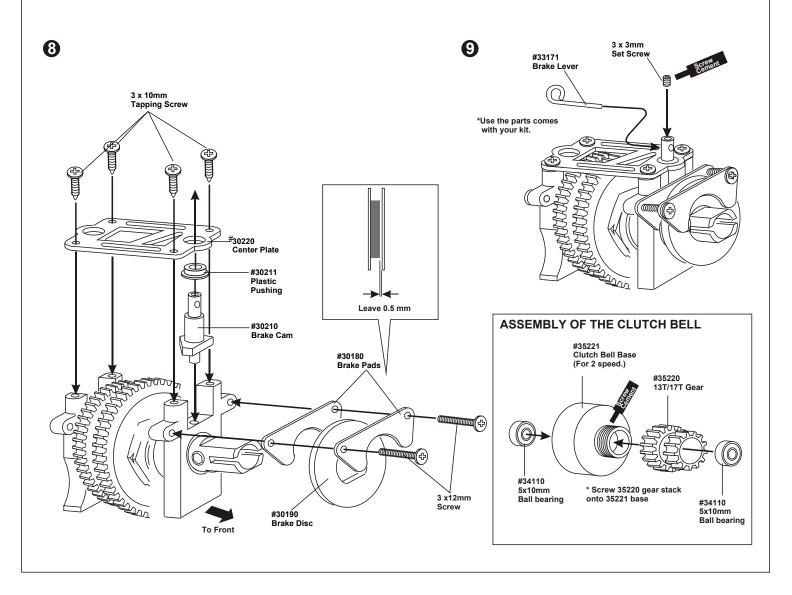




7 ASSEMBLY OF THE 2 SPEED TRANSMISSION INTO CENTER MOUNT

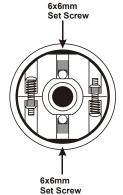
(Use the parts that come with your kit.)





ADJUSTING THE SHIFT POINT

- Adjust the engine before adjusting the clutch shift timing. Adjust the engine as perengine instruction manual.
- * Two steps to adjust the shoes and shift timing.



AIR GAP SETTING

1. Use a 2.5 mm allen wrench to adjust shoe assembly air gap. Tighten Set Screws, M6x6mm, to adjust the airgap between the shoe assembly and clutch bell wall. Adjust both screws for an even amount of gap of about 1mm.

2mm and 2.5mm Allen Wrench Clockwise (Tighten)

set the clutch shoes.

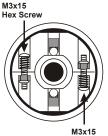
Counter-clockwise

(Loosen)

Adjustment thru

* Use a 2mm and 2.5mm allen wrench to

SHIFT TIMING SETTING



2. Use a 2mm allen wrench to adjust the shift timing. Turn, M3x15mm, screws IN until spring compresses, do not crush! Back offscrew 5 turns, this is agood place to start.

When adjusting shift timing, always turn each screw the Hex Screw same number turns.

1. Once the engine adjustments have been completed, proceed to the adjustment of the clutch shift timing. (Using a 2mm allen wrench to adjust the clutch shoes.)

To Front

Clockwise-----Shift timing will become slower. Counter Clockwise---Shift timing will become quicker.

2. Adjust the clutch shift timing for your track conditions. As you tighten (Clockwise) the 3x15mm hex screw, the shifttiming will become As you loosen (Counter Clockwise) the 3x15mm hex screw, the shift timing will

3. Set the shift timing to the track conditions while the car is running.

2 SPEED GEAR RATIO COMBINATIONS

become auicker.

The #35011 2-speed transmission has a smoother gear change and is less aggressive on the 2nd gear.

We offer many different pinion and spur gear combinations which can be used for different tracks.

IMPORTANT:

The sum of the spur gear and clutch gear for 1st gear must be equal the sum of the spur gearand clutch gearfor 2nd gearbe equal.

Example:

1st gear 45+13=58 Must be equal 2nd gear 41+17=58

(STANDARD)				
SPUR GEAR	CLUTCH GEAR (4 tooth difference)			
49T/45T	13T/17T	14T/18T	15T/19T	16T/20T
48T/44T				
47T/43T	7			\Rightarrow

2 SPEED OPTION PARTS

SPUR GEAR(1st):

USA Parts No.	Description	
No.35249	49T Spur Gear	(STD)
No.35248	48T Spur Gear	
No.35247	47T Spur Gear	

SPUR GEAR(2nd): -

USA Parts No.	Description	
No.35246	46T Spur Gear	
No.35245	45T Spur Gear	(STD)
No.35244	44T Spur Gear	

CLUTCH GEAR:

USA Parts No.	Description	
No.35220	13T/17T Gear	(STD)
No.35232	14T/18T Gear	
No.35233	15T/19T Gear	

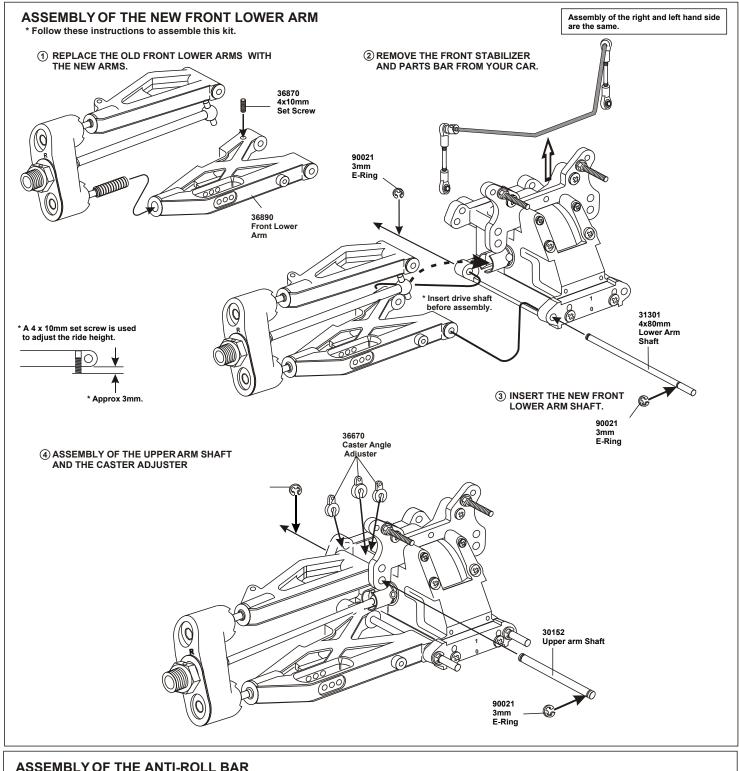
OFNA Racing-USA Tel:949-586 2910 Fax:949-586 8812

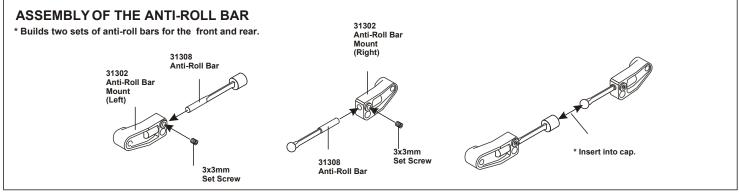
2 SPEED SPAREPARTS

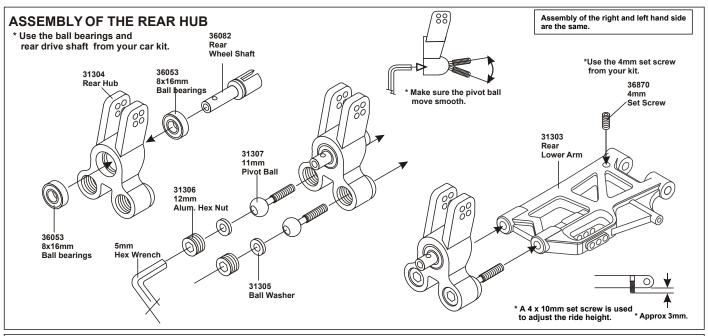
USA Parts No.	Description
35225	1st Spur Gear Holder
35228	Alum. Nut (Counter-Clockwise)
35230	8x12mm Flange Ball bearing
35222	Center Shaft
34110	5x10x4mm Ball bearing
35221	Clutch Bell Base
35249	49T Spur Gear (1st)
35245	45T Spur Gear (2nd)
35234	2nd Spur Gear Clutch Bell
35235	Clutch Shoe Carries
35219	Alum. Nut (Clockwise)
35236	2nd Clutch Shoes
Misc Parts	Spring
	4mm Ball
35237	6x6mm SetScrew
	3x15mm Hex Screw
35321	8x10x1.5mm Alum. Ring

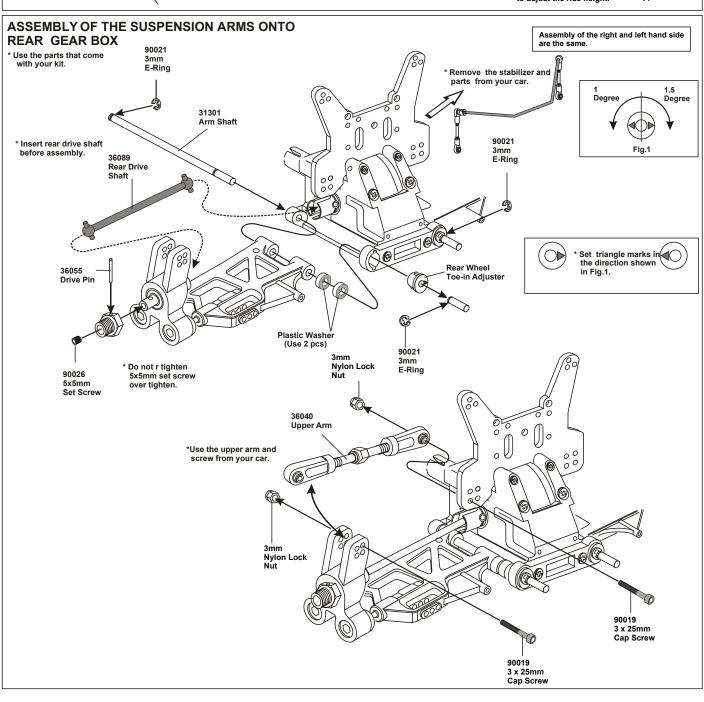
OPTIONAL Rear Pivot Ball Suspension Kit For "ULTRA GTP" #31300

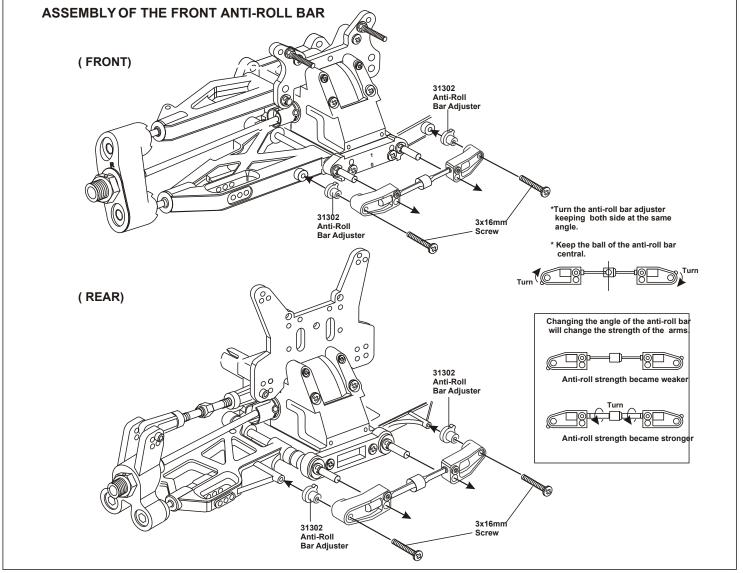
This rear pivot ball kit is suitable for those who already have "ULTRAGTP" car kit.



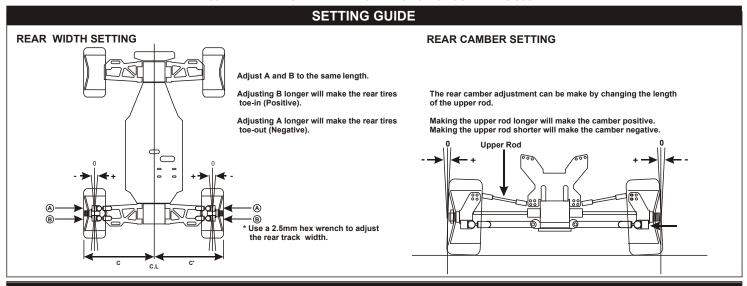








ASSEMBLE THE FRONT AND REAR GEAR BOX ONTO YOUR CAR AS USUAL.



PARTS LIST

Item No.	Description	Qty
31308	Anti-Roll Bar	1 set
31301	4x80mm Arm Shaft	2 pcs
31302	Anti Roll Bar Mount / Adjuster	1 set
36890	Front Lower Arm	1 set
31303	Rear Lower Arm	1 set

Item No.	Description	Qty
31304	Rear Hub (Pivot Ball Type)	2 pcs
31305	Ball Washer	4 pcs
31302	Anti Roll Bar Mount / Adjuster	1 set
31306	Alum. Hex Nut	4 pcs
31307	Pivot Ball	2 pcs.